



South Indian Education Society's
GRADUATE SCHOOL OF TECHNOLOGY,
Navi Mumbai.
DEPARTMENT OF INFORMATION
TECHNOLOGY



Value Added Course on Full Stack Web Development

December 13 to December 18, 2021

Click [here](#) to register

Full stack web development: It refers to the development of both front end (client side) and back end (server side) portions of web application. Full stack web developers can design complete web application and websites. They work on the frontend, backend, database and debugging of web application or websites. To address this need, this course is designed to educate our students using above listed languages and frameworks for the web development. Students must learn the best practices and procedures for developing real world applications.

About Instructors:

This course will be taught by the Internal faculty of SIES GST and the Industry experts from.

Industry Experts

- Mr. Ganesh Ashok Deshmukh – Backend Developer, Jio-Haptik
- Mr.Rahul Thorat, ASDE, CarTrade Tech Limited.

Internal Expert:

- Mr.Amit Pandhare, Assistant Professor
- Ms.Samundiswary S, Assistant Professor

Course Objectives:

The objective of this course is to expose the web programming concepts with hands on session and to understand and apply different frameworks and scripting languages to develop web-based applications for any real-world problem.

Course Outcomes:

- To orient students towards Web Programming fundamentals and to expose JavaScript to develop interactive web page development
- Students to understand basics of REACT and to develop applications in Django framework with Sql and NoSQL database.

Course Content:

Prerequisite: Computer Networks, Basics of security.

Module	Contents	External Expert/ Internal Faculty Member	Hours
1.	Web Programming fundamentals Basic of HTML, Introduction to CSS, Introduction to JavaScript: HTML5 and Responsive Web Design with CSS3, Front End Frameworks and Libraries	Samundiswary S	12 hrs
2.	Java Script: Loops, Functions, Events, Classes and Objects, Validation React Fundamentals: Installation of React, installing libraries, JSX, Folder and file structure, Components, state and props, React Router and Single Page Application, Functional Components, - Refs, Use effects, Hooks, Forms, Events, Keys.	Amit Pandhare	12 hrs
3.	Python Web Framework: Django and Database (SQL & NoSQL) Introduction, Web Frameworks, Introduction to Django, Projects and Apps, API working, data flow from backend to front end .SQL Vs NoSQL, Python with SQL, and Python with NoSQL,	Mr. Ganesh Ashok Deshmukh – Backend Developer, Jio-Haptik	4 hrs
4.	Backend .Net Development, C #, MySQL dapper, async and await MVC	Mr.Rahul Thorat,	4 hrs
5.	Problem statement formulation for Mini project and its implementation based on the concepts learned.	Amit Pandhare, Samundiswary S	8 hrs

Assessment:

1. Module wise assignments and quizzes should be completed by students.
2. Mini project should be completed.

- **Course Coordinator:** Prof. Stuti Ahuja, Assistant Professor, IT Department
ahuja.stuti@siesgst.ac.in
9370997412